

Maintaining excellence in a challenging budget environment

Dr. G. Wayne Clough

President's Administrative Retreat

August 22, 2003

Admissions

- 2,200 incoming freshmen (same as last year)
- Strong academic profile:
 - Average SAT: 1337
 - Average GPA: 3.7
- Largest number of international freshmen in Tech history.



State funding levels



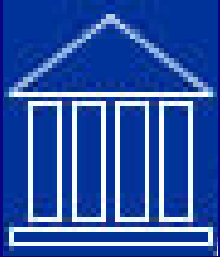
- Sustained \$24.3 million in cumulative cuts through FY '03 (11.3% of state-funded budget)
- FY '04 budget:
 - Additional \$4.3 million in cuts from FY '03
 - Another 2.5% cut in the works
 - GRA funded at \$24 million
 - Only one capital project funded in System
- Potential for 5% cut in FY '05



Board of Regents of the University System of Georgia

Allocations to Georgia Tech

- Received expected amount in workload allocation (\$10.9 million)
- Passed along \$1.4 million for GTREP
- \$2.25 million for operations and maintenance funds for new facilities, including Technology Square
- \$1.3 million performance-based increase and strategic allocation



Tuition and fees

→ Tiered tuition increases:

- 15% increase at research universities

- 10% increase at 4-year institutions

- 5% increase at 2-year colleges

→ Tuition and fees - Georgia Tech:

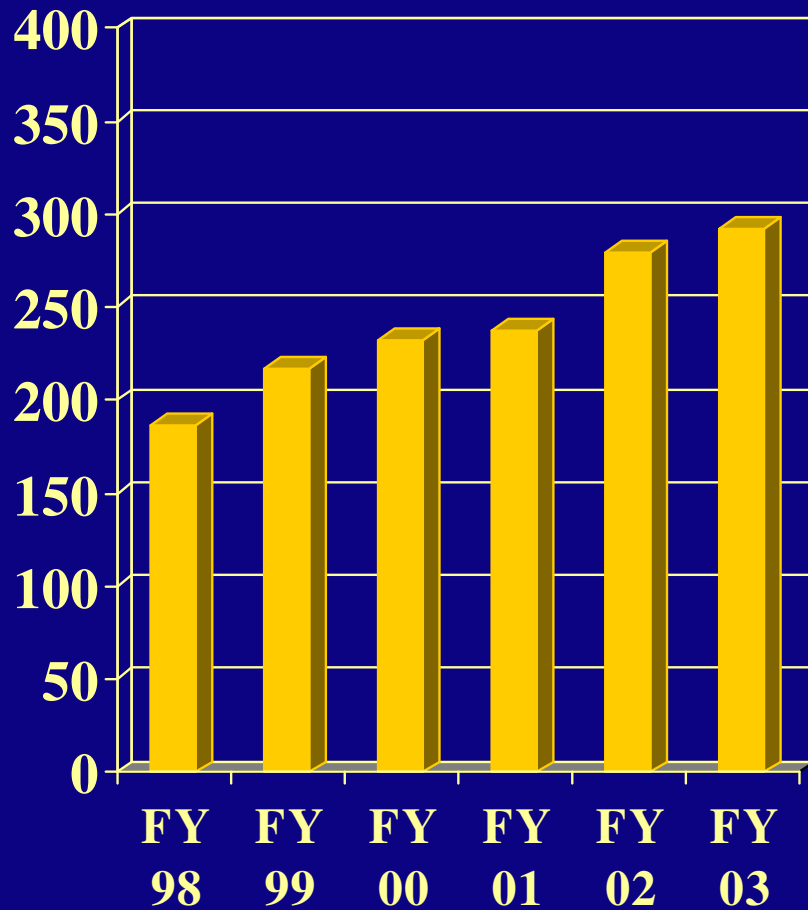
- In-state: \$2,038 per semester (+ \$230)

- Out-of-state: \$8,001 per semester (+ \$1,008)

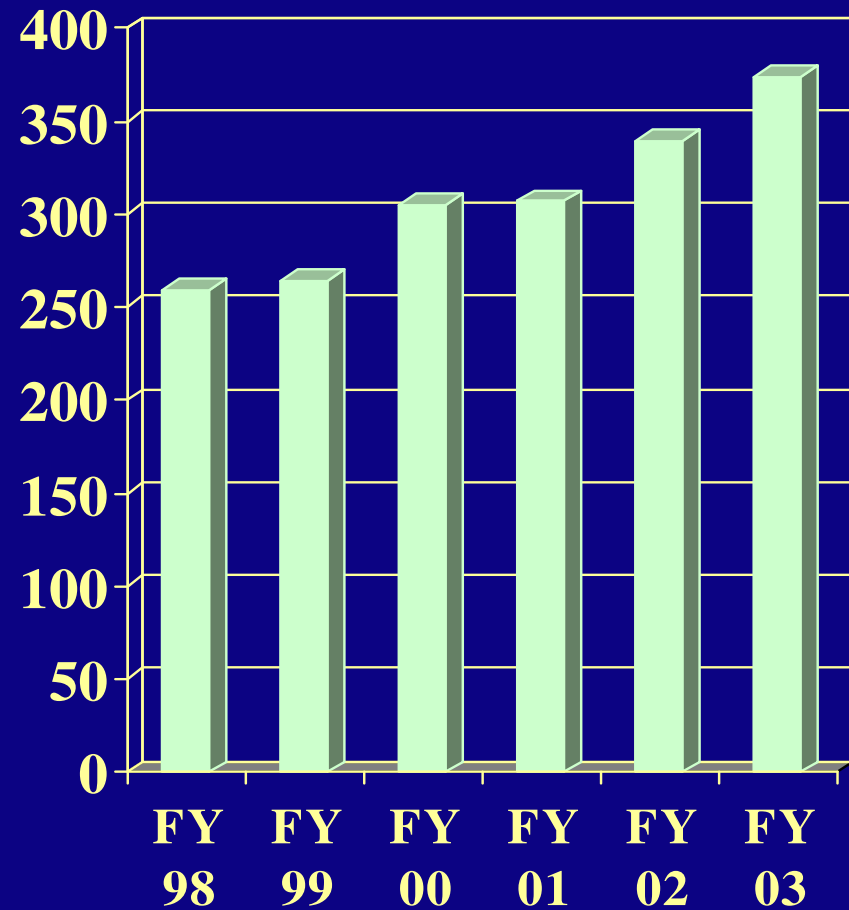
→ National average in-state tuition & fees for 4-year public universities: \$2,200 per semester

Expanding research enterprise

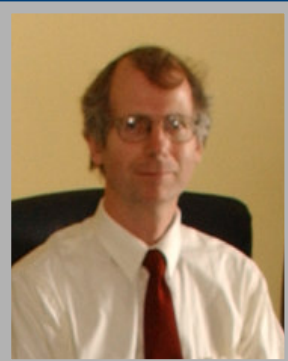
Awards



Expenditures



Succession Planning: Building on Success



The Arizona Group: Power Pack

Seth Marder

Chemistry & Biochemistry

Jean-Luc Brédas

Chemistry & Biochemistry

Bernard Kippelen

Electrical Engineering

Joe Perry

Chemistry & Biochemistry



New Leaders: A Strong Foundation

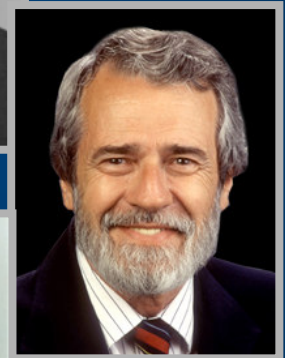
Rich DeMillo

Inlay Dean of Computing



Don Giddens

Dean of Engineering



Diana Hicks

Chair, School of Public Policy



Larry McIntire

Chair, Coulter Department of
Biomedical Engineering



Endowed Chairs: A Great Opportunity

Barbara Boyan

Price Gilbert Jr. Chair in
Tissue Engineering



Russell Dupuis

Steve W. Chaddick Chair in
Electro-Optics



Catherine Ross

Harry West Chair for Quality
Growth and Regional Development



Marie Thursby

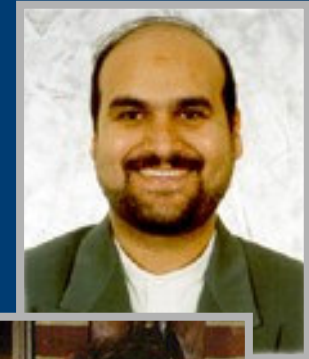
Hal and John Smith Chair in
Entrepreneurship



Young Stars: Making News, Making History

Ali Adibi

Electrical & Computer Engineering
Packard Fellow in Science & Technology



Michael Chapman

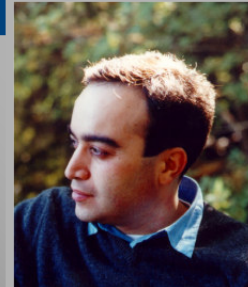
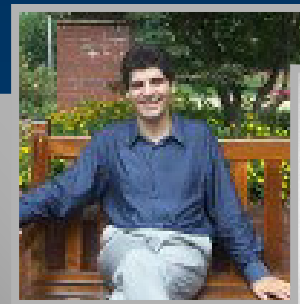
Physics
*all-optical cooling of atoms to nearly
absolute zero*



Steve Potter

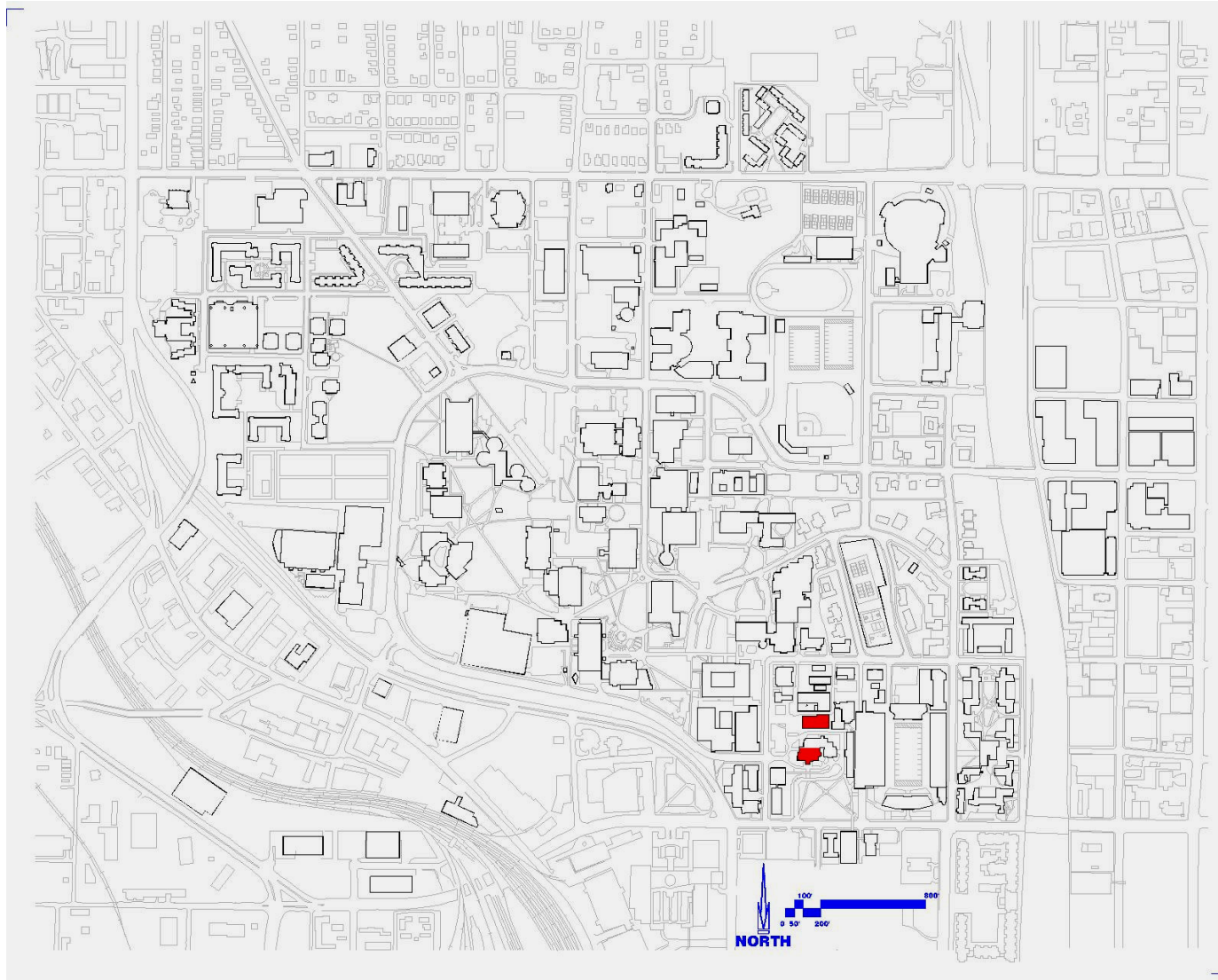
Biomedical Engineering
*Robotics utilizing rat brain
signals*





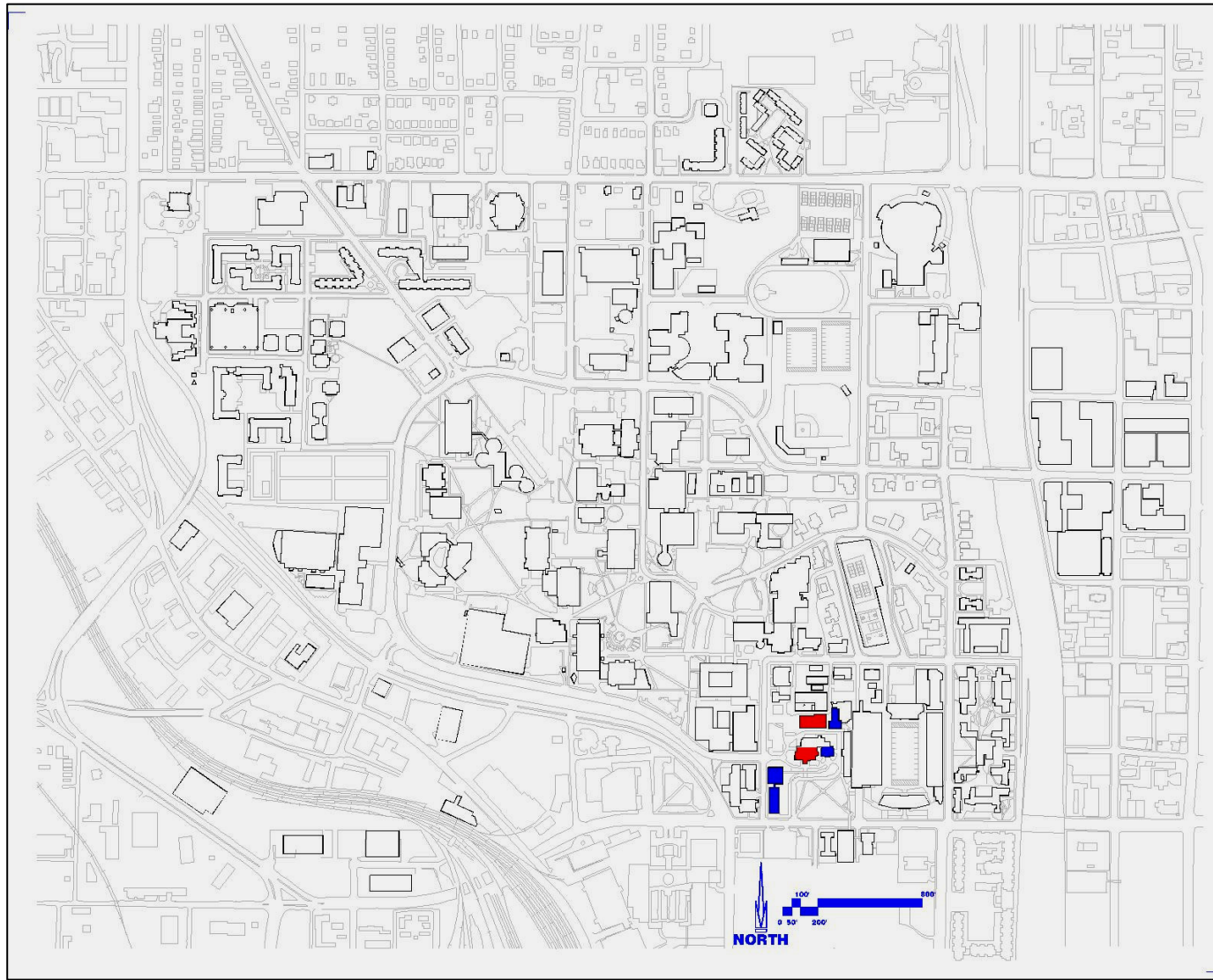
Georgia Tech Facilities Update 1995 - 2005

The History of Building Construction



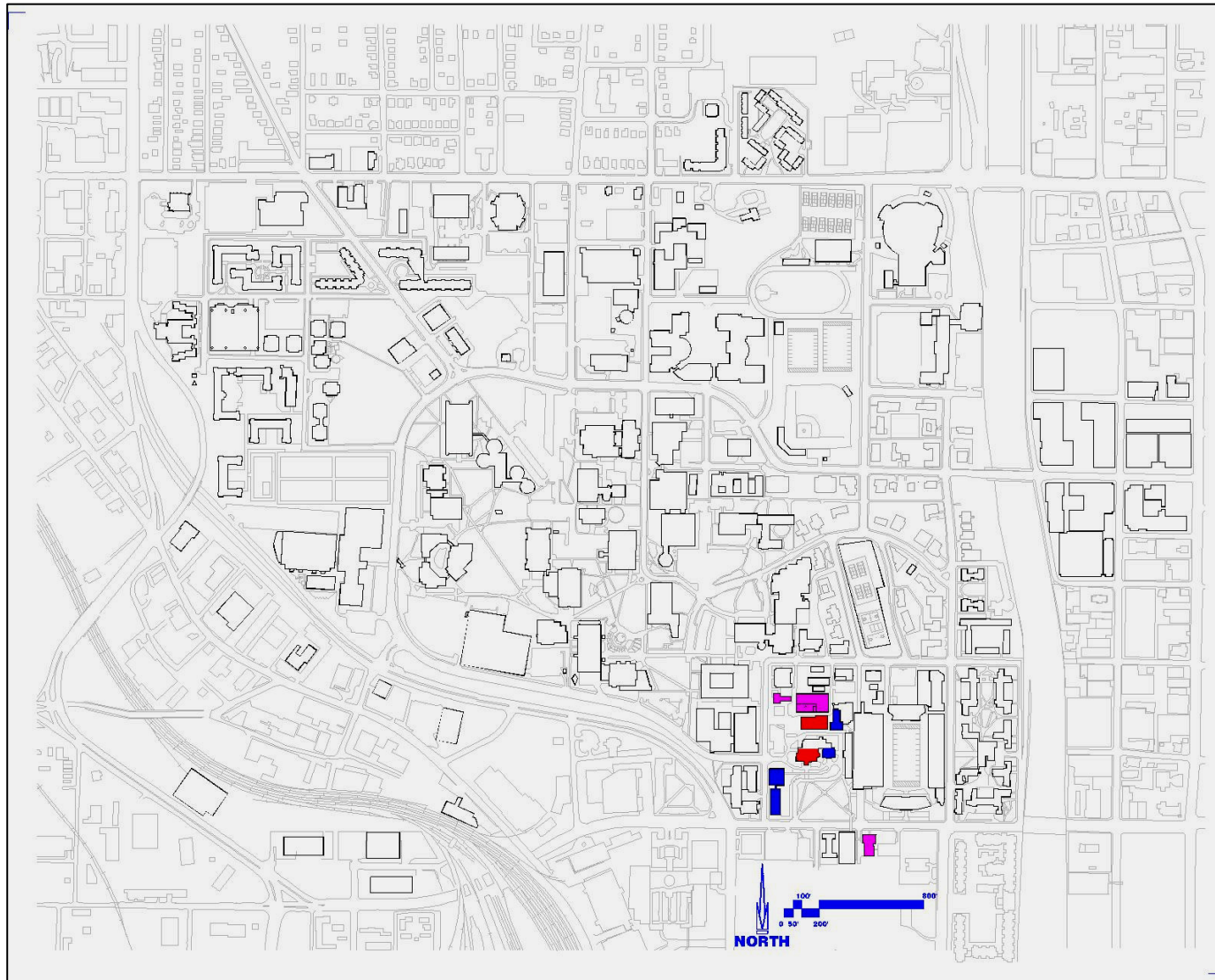
■ 1800's

The History of Building Construction



- 1800's
- 1900's

The History of Building Construction



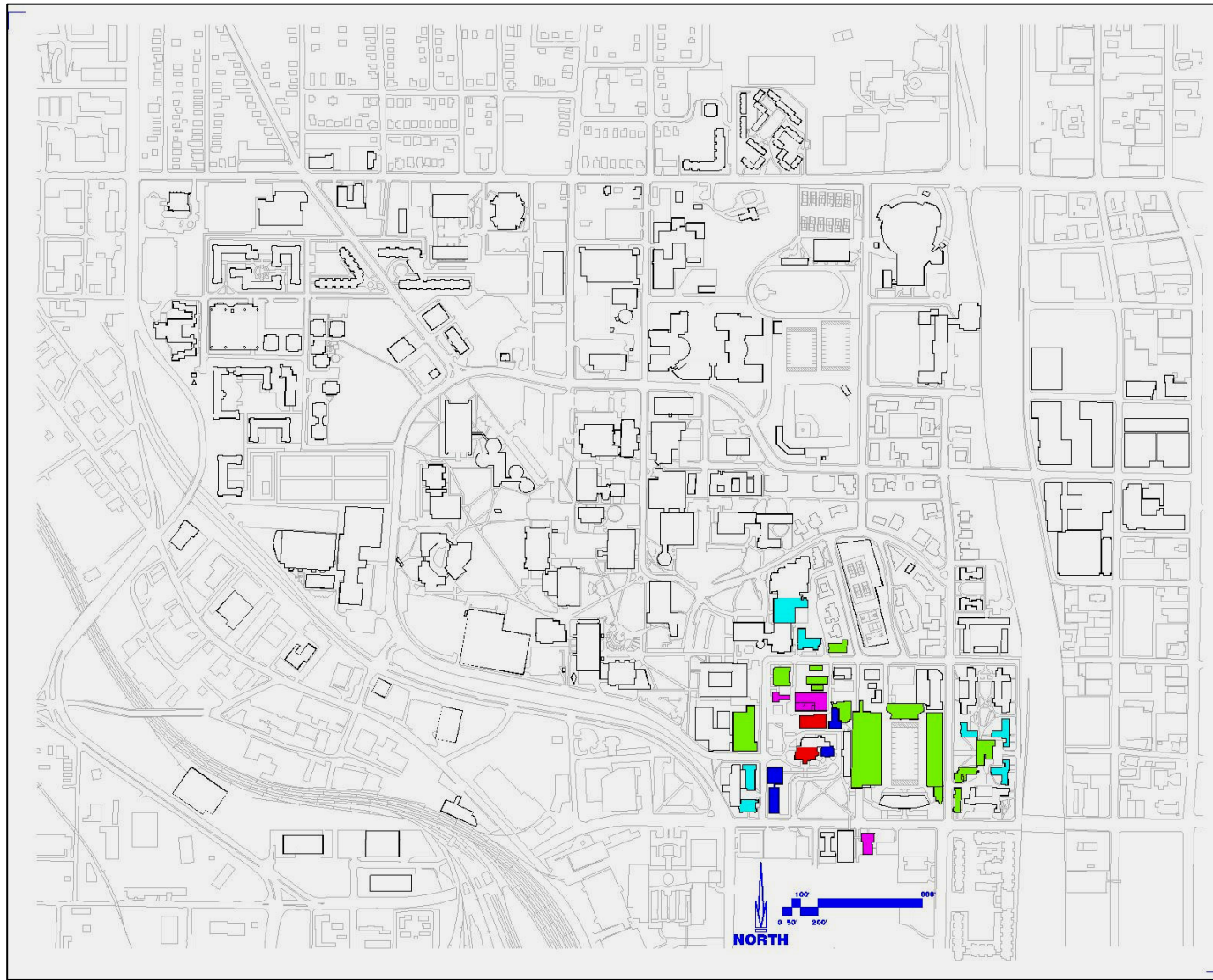
- 1800's
- 1900's
- 1910's

The History of Building Construction



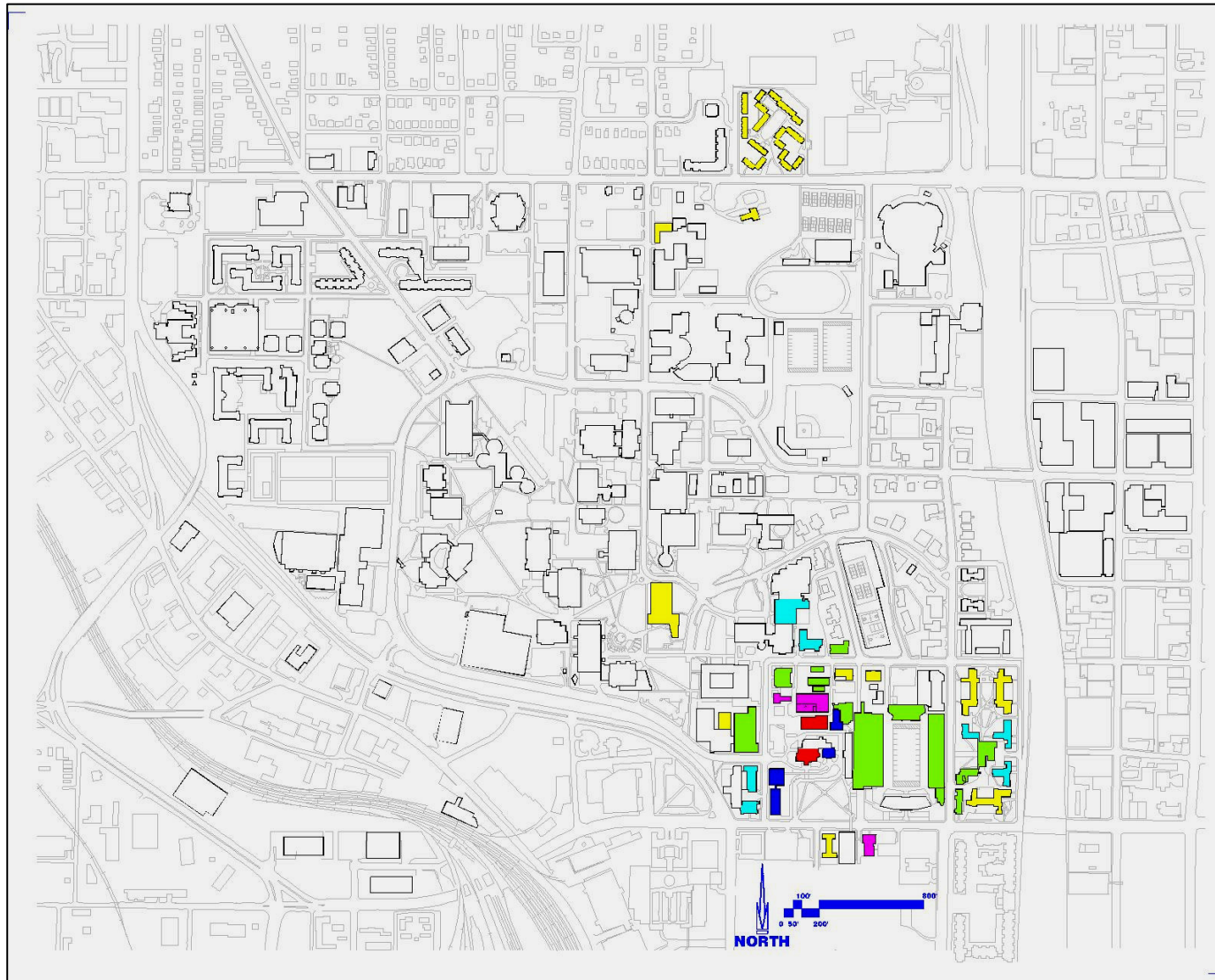
- 1800's
- 1900's
- 1910's
- 1920's

The History of Building Construction

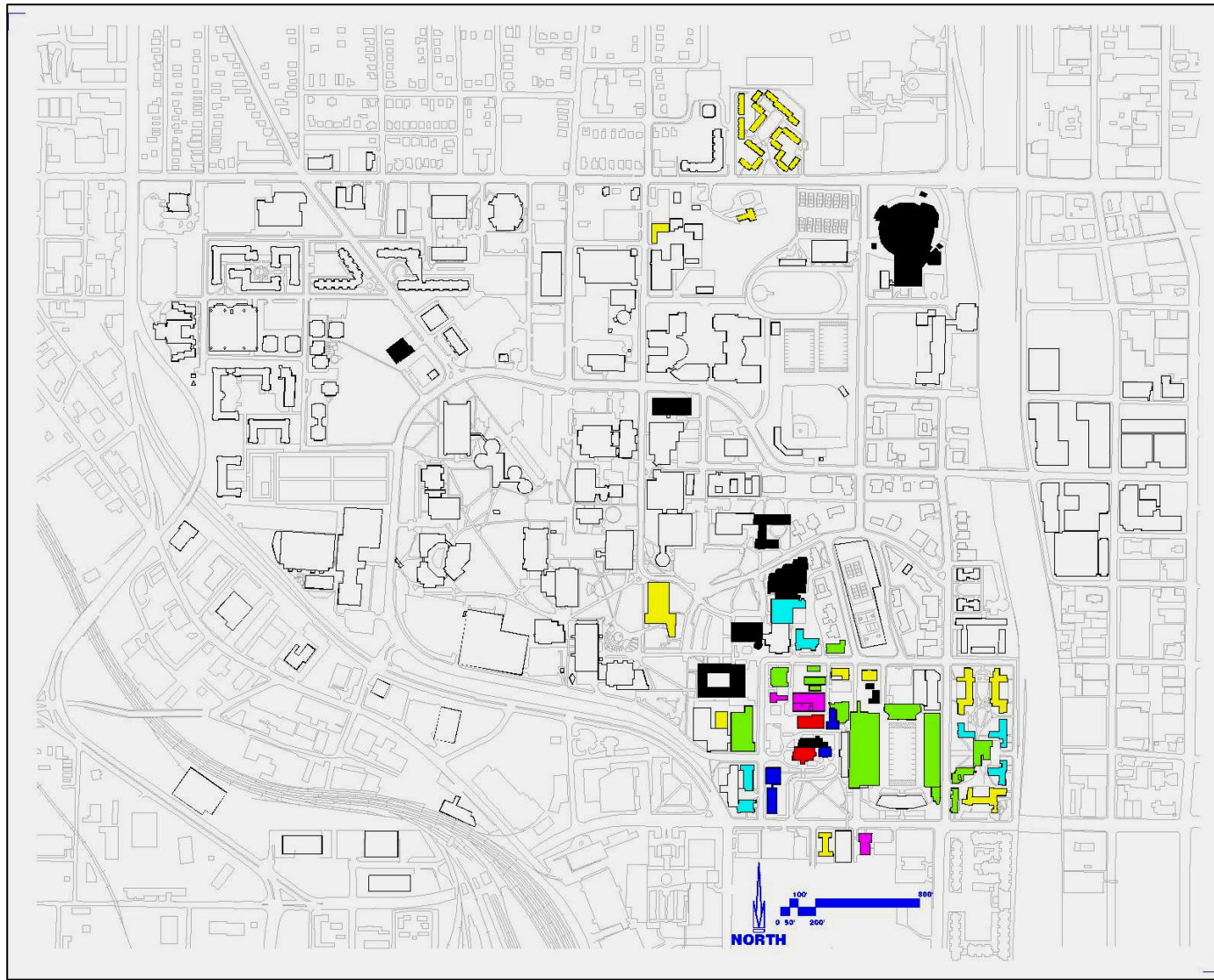


- 1800's
- 1900's
- 1910's
- 1920's
- 1930's

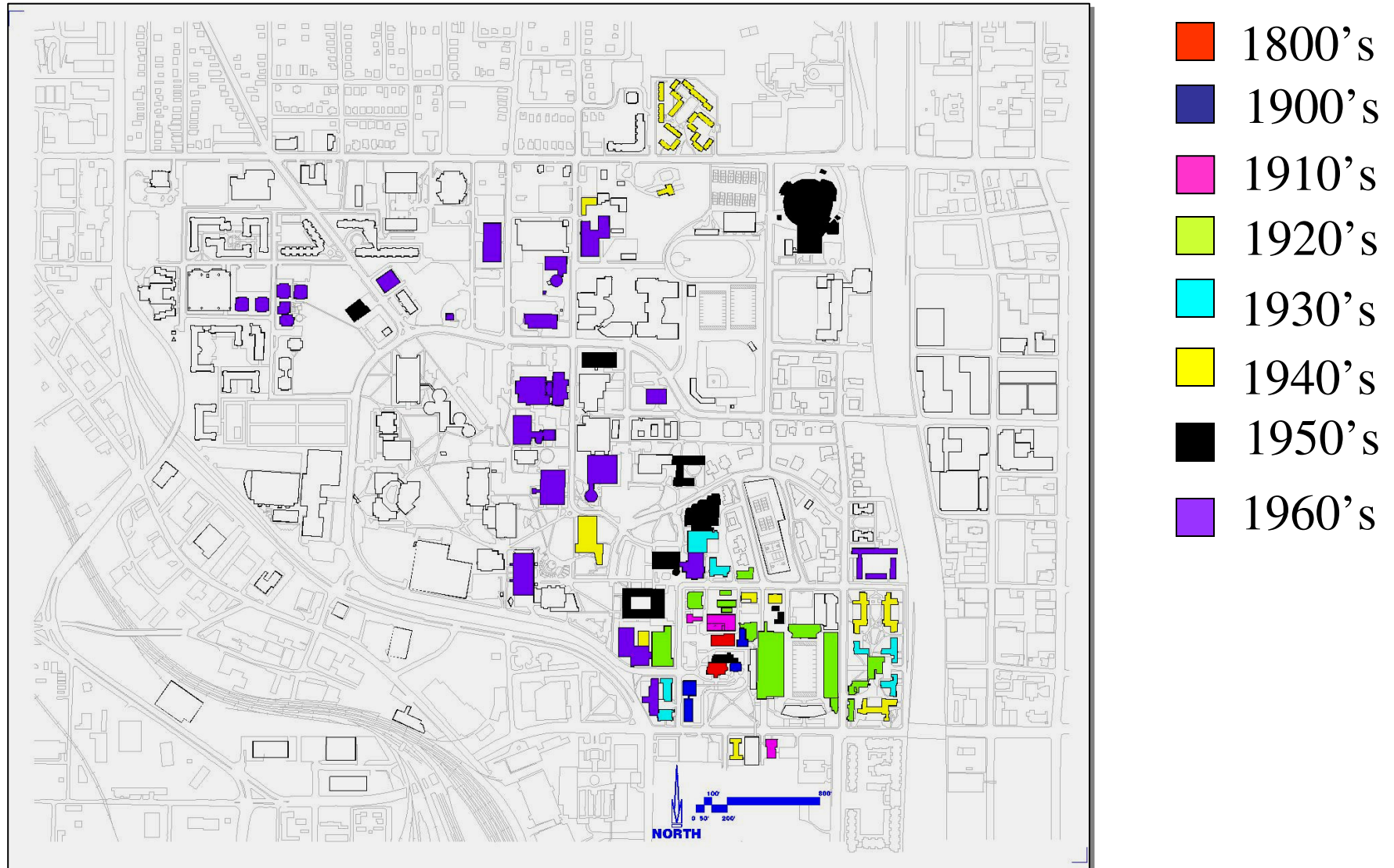
The History of Building Construction



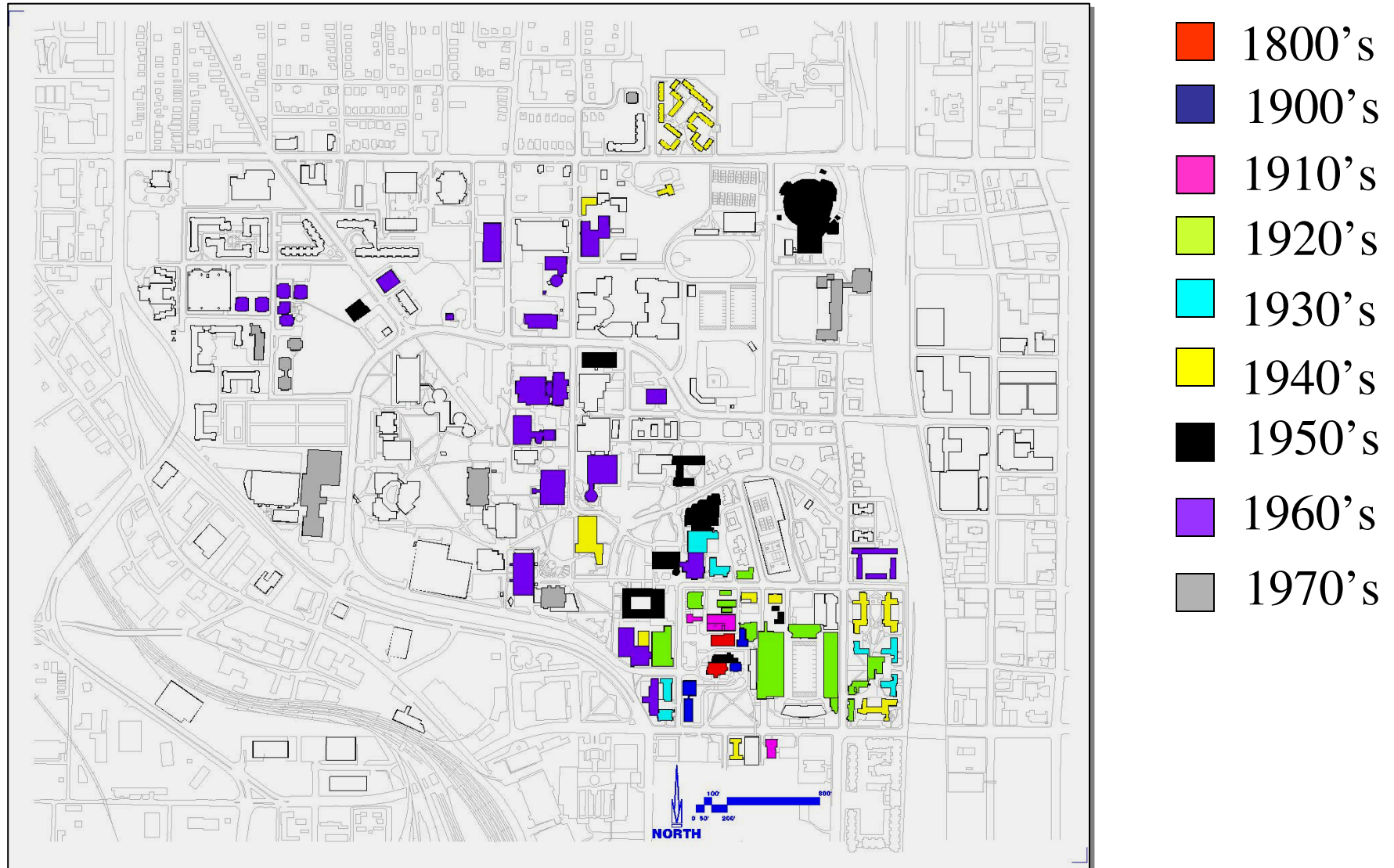
The History of Building Construction



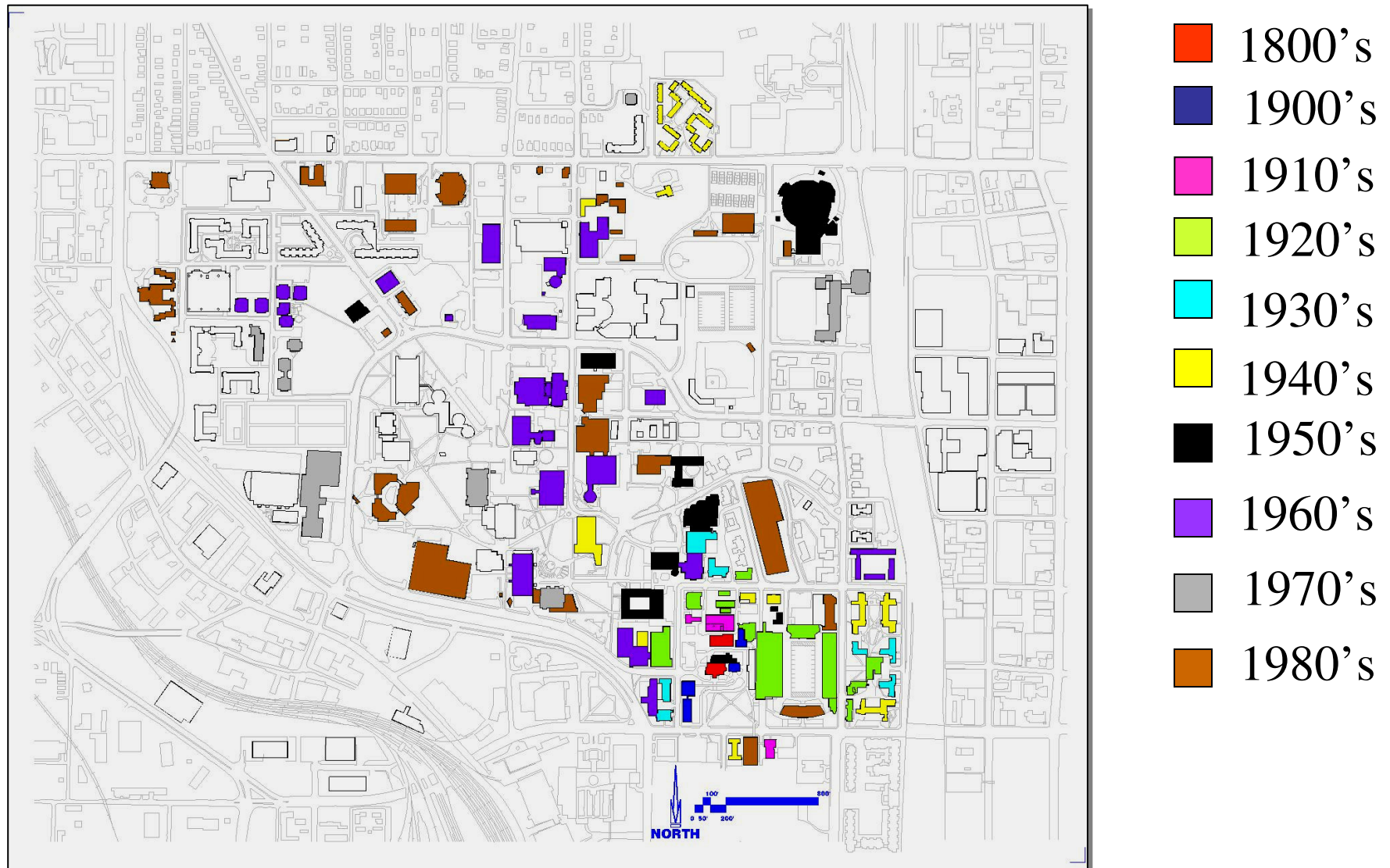
The History of Building Construction



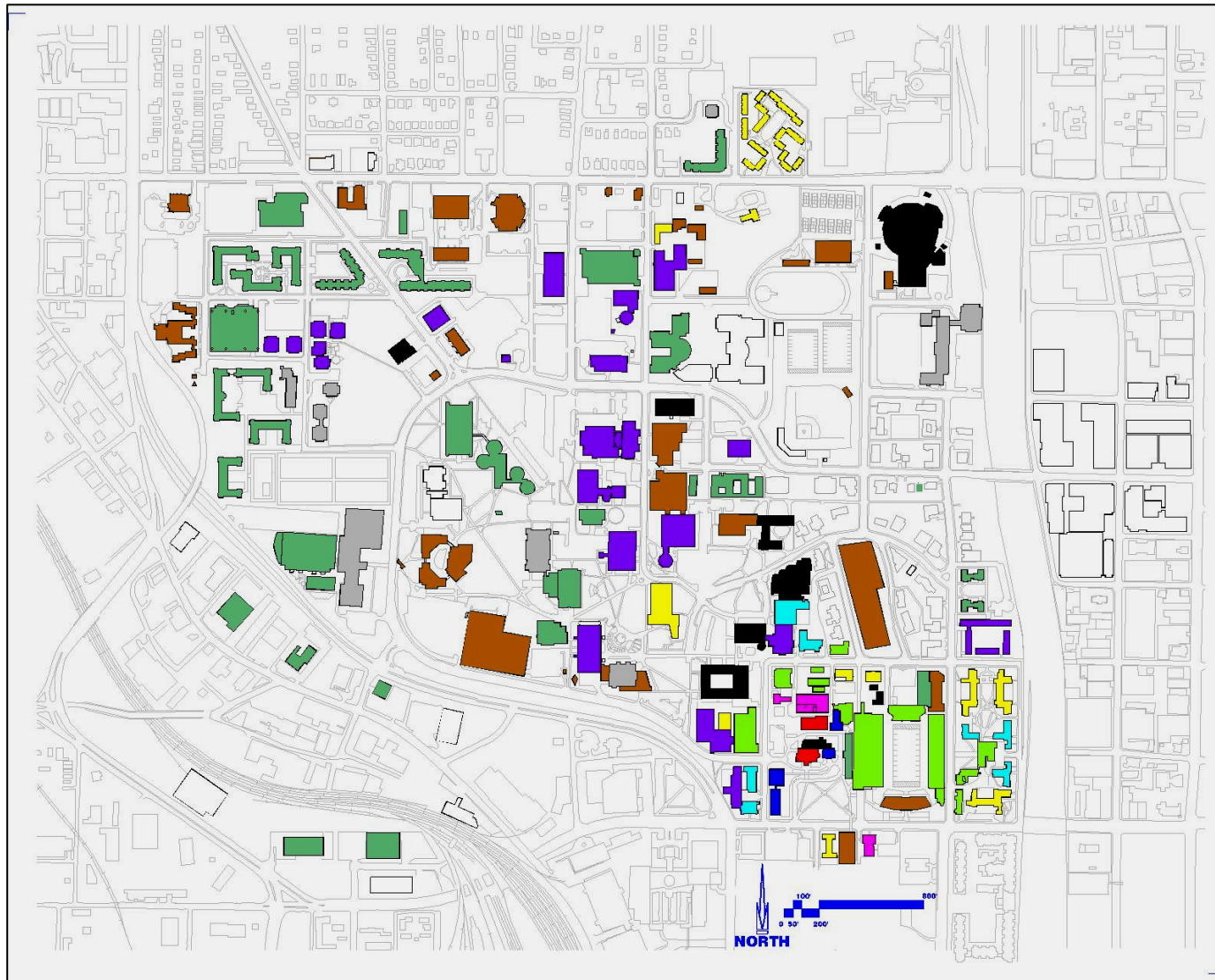
The History of Building Construction



The History of Building Construction

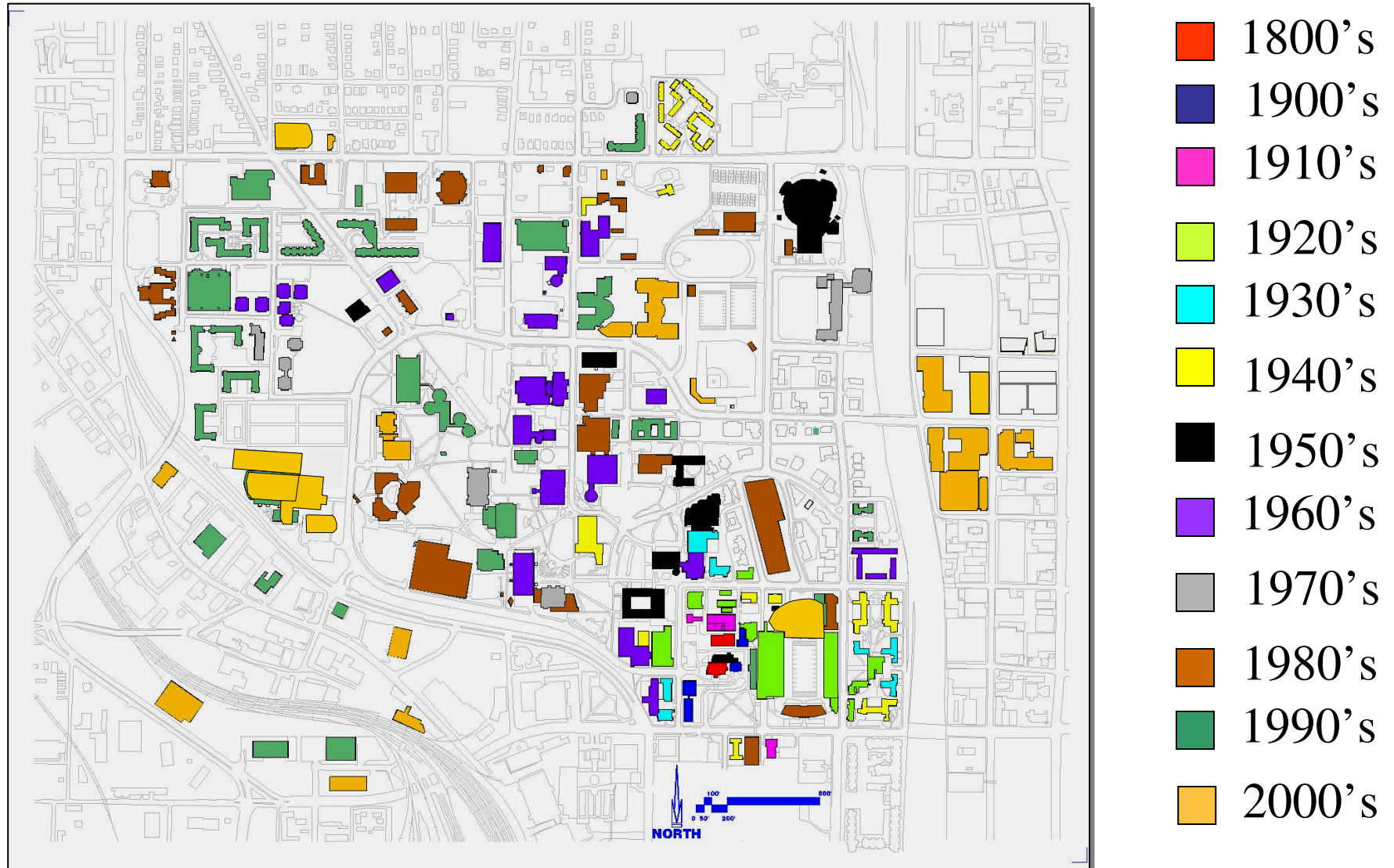


The History of Building Construction

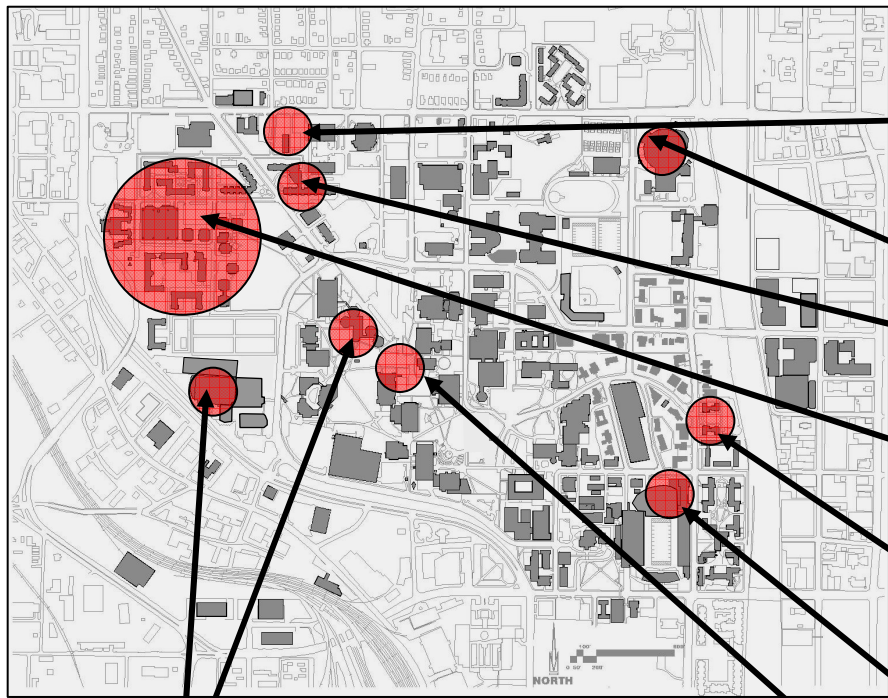


- 1800's
- 1900's
- 1910's
- 1920's
- 1930's
- 1940's
- 1950's
- 1960's
- 1970's
- 1980's
- 1990's

The History of Building Construction



1995 - 1998



GCATT

157,500 GSF

\$27.4 M

10th Street Chiller Plant

8,800 GSF

\$ 3.2 M

AMC Renovation

\$12.0 M

Center Street Apartments

152,800 GSF

\$13.9 M

Olympic Housing

523,400 GSF

\$64.7 M

Fourth Street Houses

30,800 GSF

\$ 4.6 M

Homer Rice Center

22,000 GSF

\$ 5.2 M

Sustainable Education Building

33,000 GSF

\$4.3 M

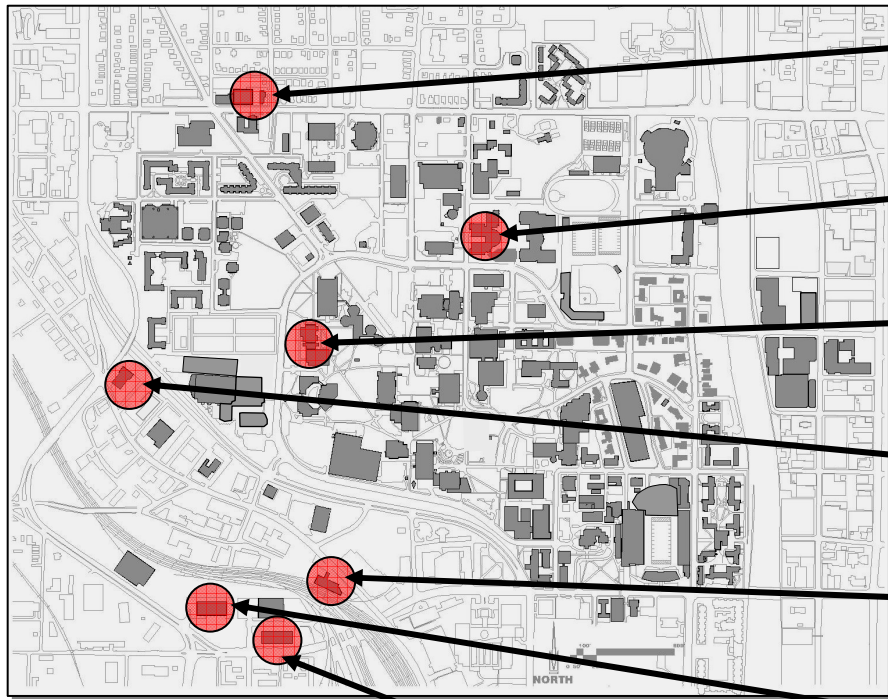
MRDC I

121,900 GSF \$16.0 M

Aquatic Center

117,145 GSF \$ 5.8 M

1999 - 2001



Broadband Institute Lab

6,400 GSF

\$ 700 K

Institute for Biosciences & Bioengineering

153,200 GSF

\$ 30.4 M

J. Erskine Love Manufacturing Building

153,700 GSF

\$ 27.3 M

OIT Office Complex

44,900 GSF

\$ 550 K

Advanced Wood Products Laboratory

18,700 GSF

\$ 630 K

Structures Laboratory

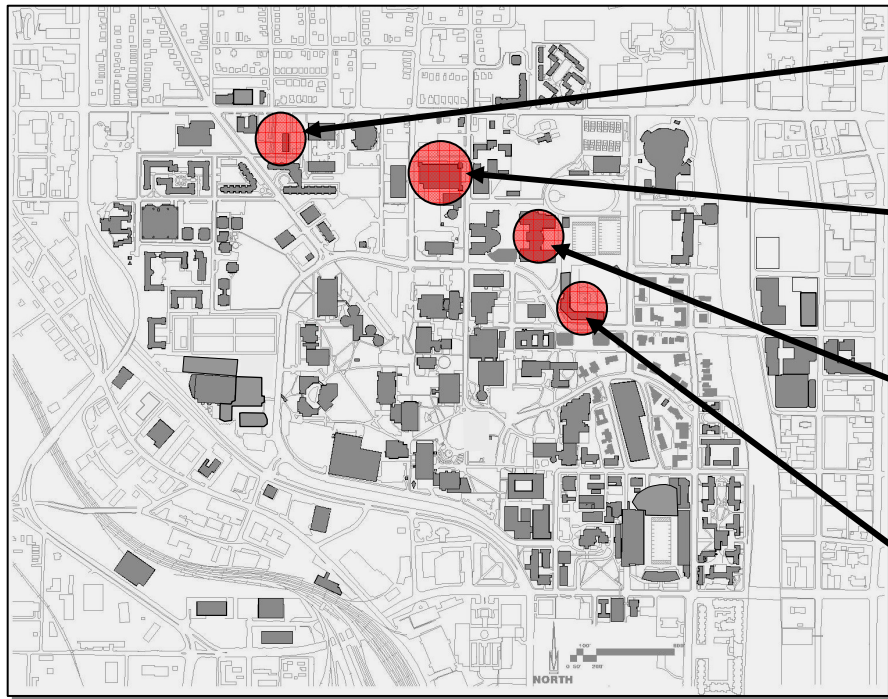
29,000 GSF

\$ 6.9 M

AE Gas Combustion Laboratory

21,500 GSF

\$ 7.7 M



North Chiller Plant Expansion

\$4.8 M

North Campus Parking Deck

268,500 SF

\$10.6 M

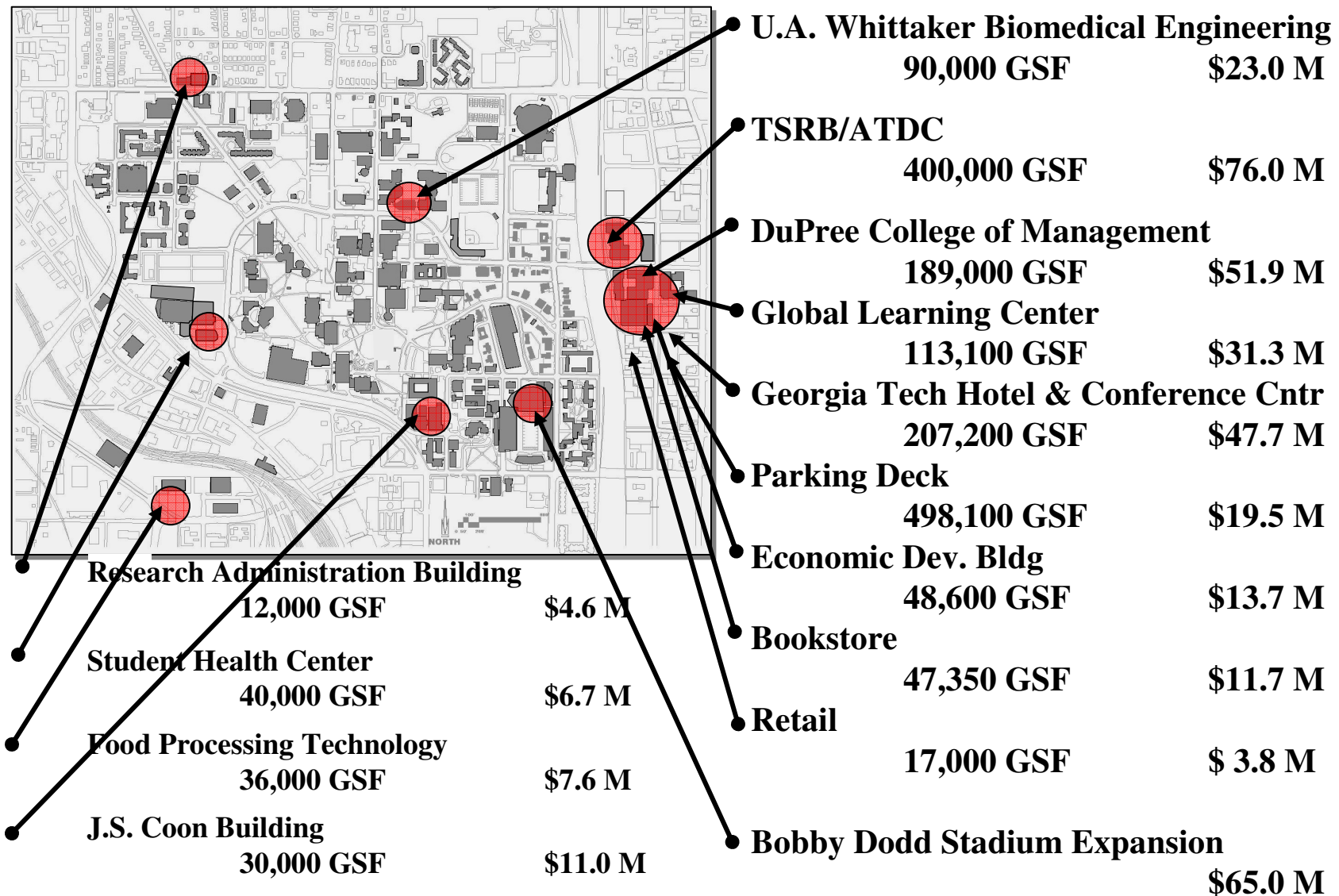
Ford Environmental Science & Technology

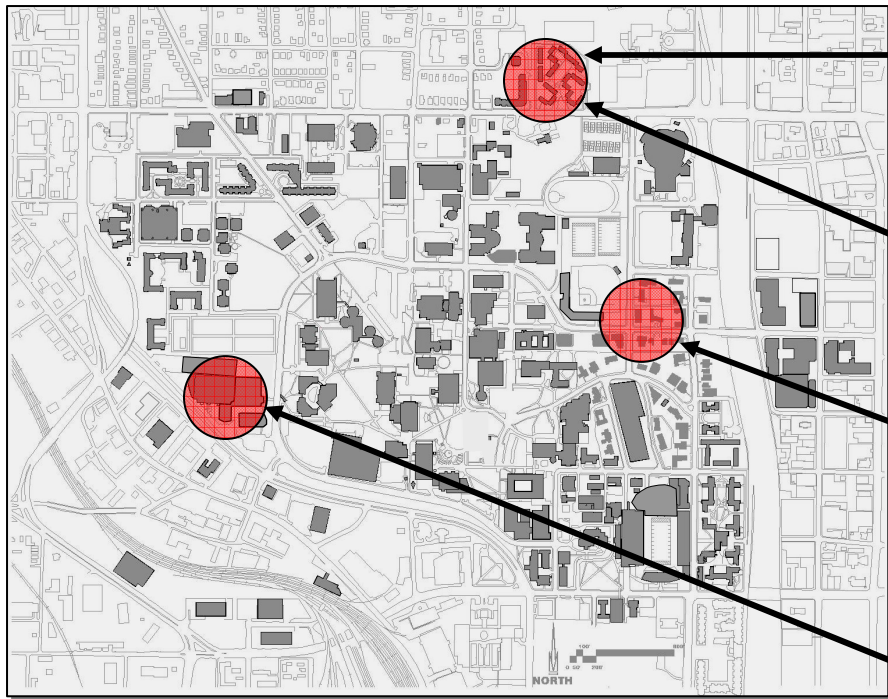
291,000 SF

\$58.0 M

Chandler Field Stadium

\$9.5 M



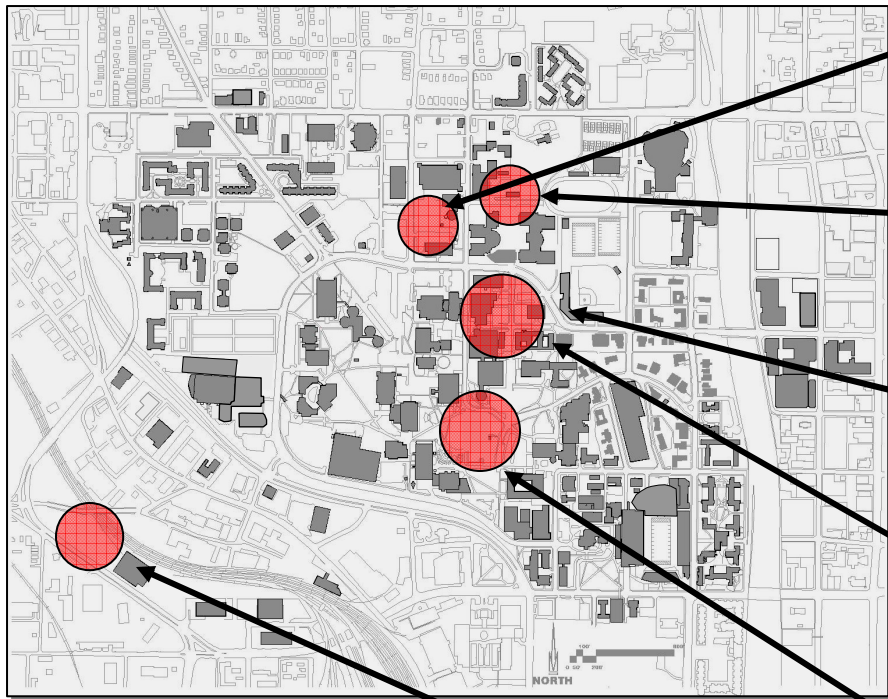


Family and Married Student Housing
410,000 GSF \$61.9 M

Parking Deck
270,000 GSF \$10.4 M

Fifth Street Project
\$2.5 M

Student Athletic Complex
280,000 GSF \$44.0 M



Advanced Cleanroom Complex

150,000 GSF \$80.0 M

Molecular & Materials Sciences

200,000 GSF \$60.0 M

Klaus Advanced Computing Building

210,000 GSF \$53.5 M

Parking Deck

170,000 GSF \$ 9.0 M

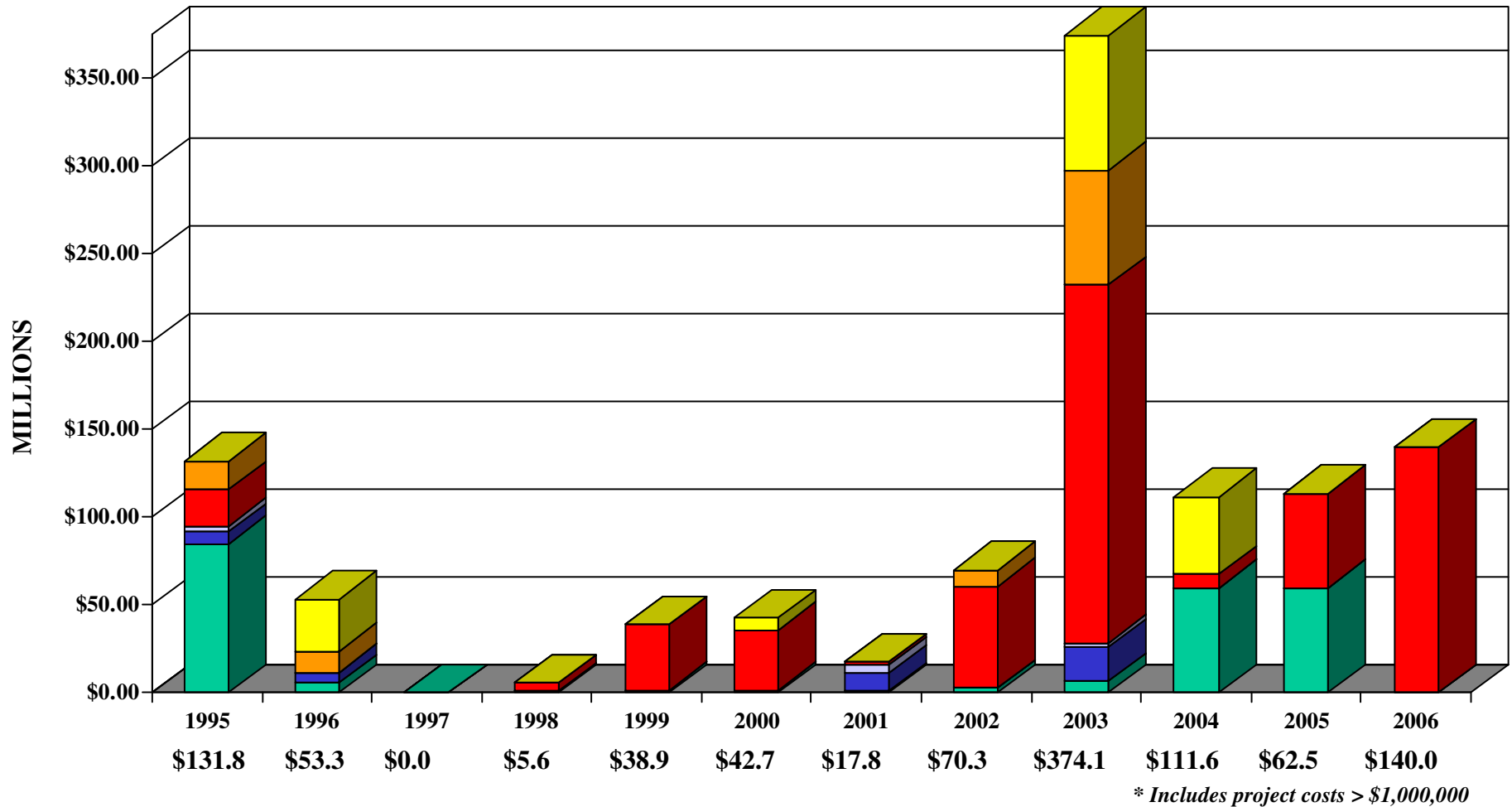
Innovative Learning Resource Center

205,000 GSF \$42.0 M

Electrical Substation

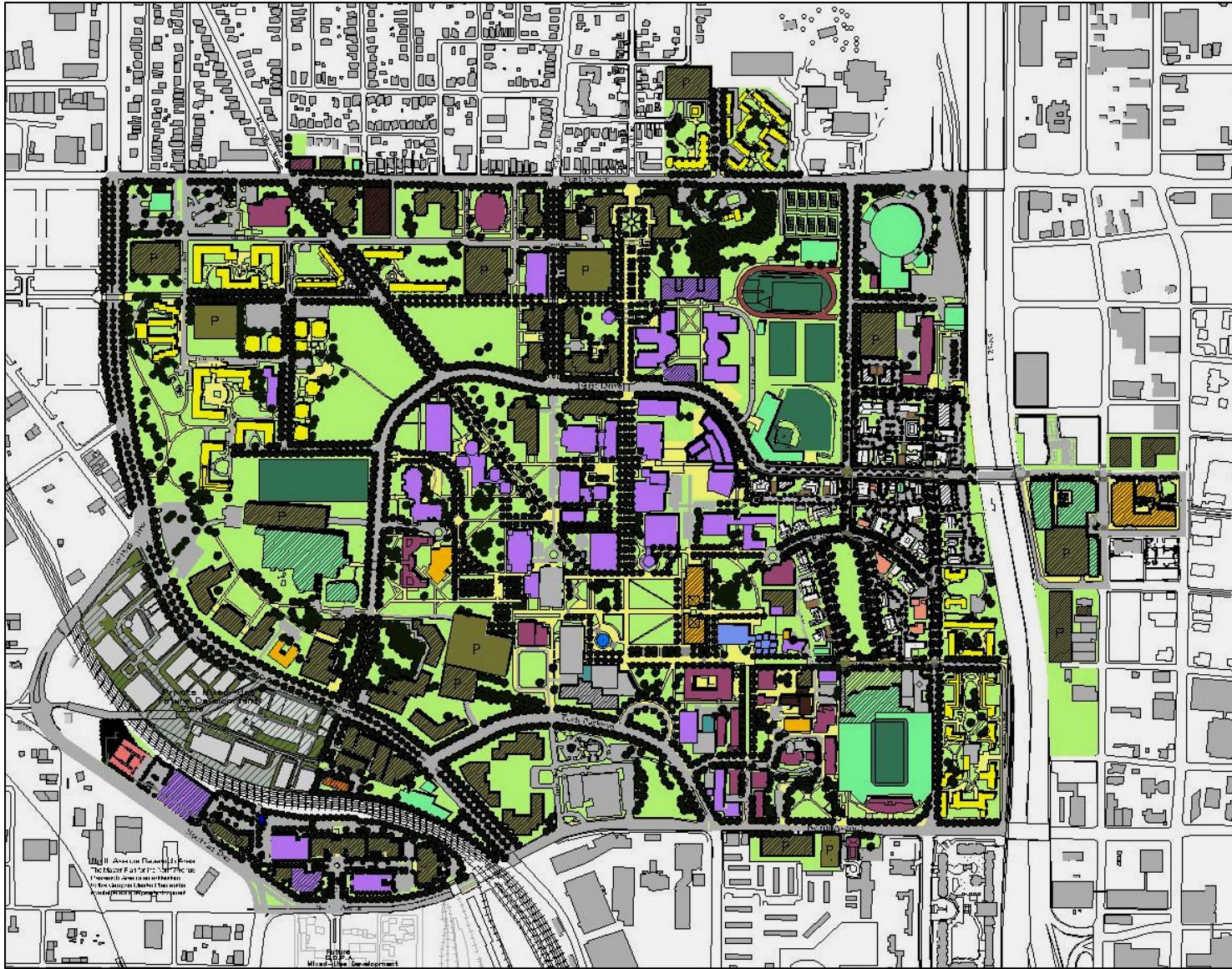
\$25.0 M

Major Capital Expenditures 1995 - 2006



■ Auxiliary
 ■ Parking
 ■ Infrastructure
 ■ Academics
 ■ Athletics
 ■ Other

The Master Plan



Maintaining excellence in a challenging budget environment

- Drivers of the planning process
- Identify the basic questions
- Review guiding principles

Enrollment considerations

- Increasing graduate enrollment
 - In disciplines like the sciences and management
 - In interdisciplinary programs
 - At GT Lorraine in France and GT Asia-Pacific in Singapore; other dual degree options
 - Through distance learning; executive programs
- Absorbing undergraduate growth through GTREP and transfer programs

Peer enrollment composition

<u>Institution</u>	<u>Total</u>	<u>Graduate</u>	<u>% Grad</u>
MIT	10,317	6,139	60%
Stanford	18,297	10,937	60%
Carnegie Mellon	9,373	4,026	43%
Michigan	35,700	11,228	31%
Georgia Tech	16,479	5,022	30%
UC Berkeley	32,408	8,693	27%
Illinois-Urbana	37,209	8,966	24%

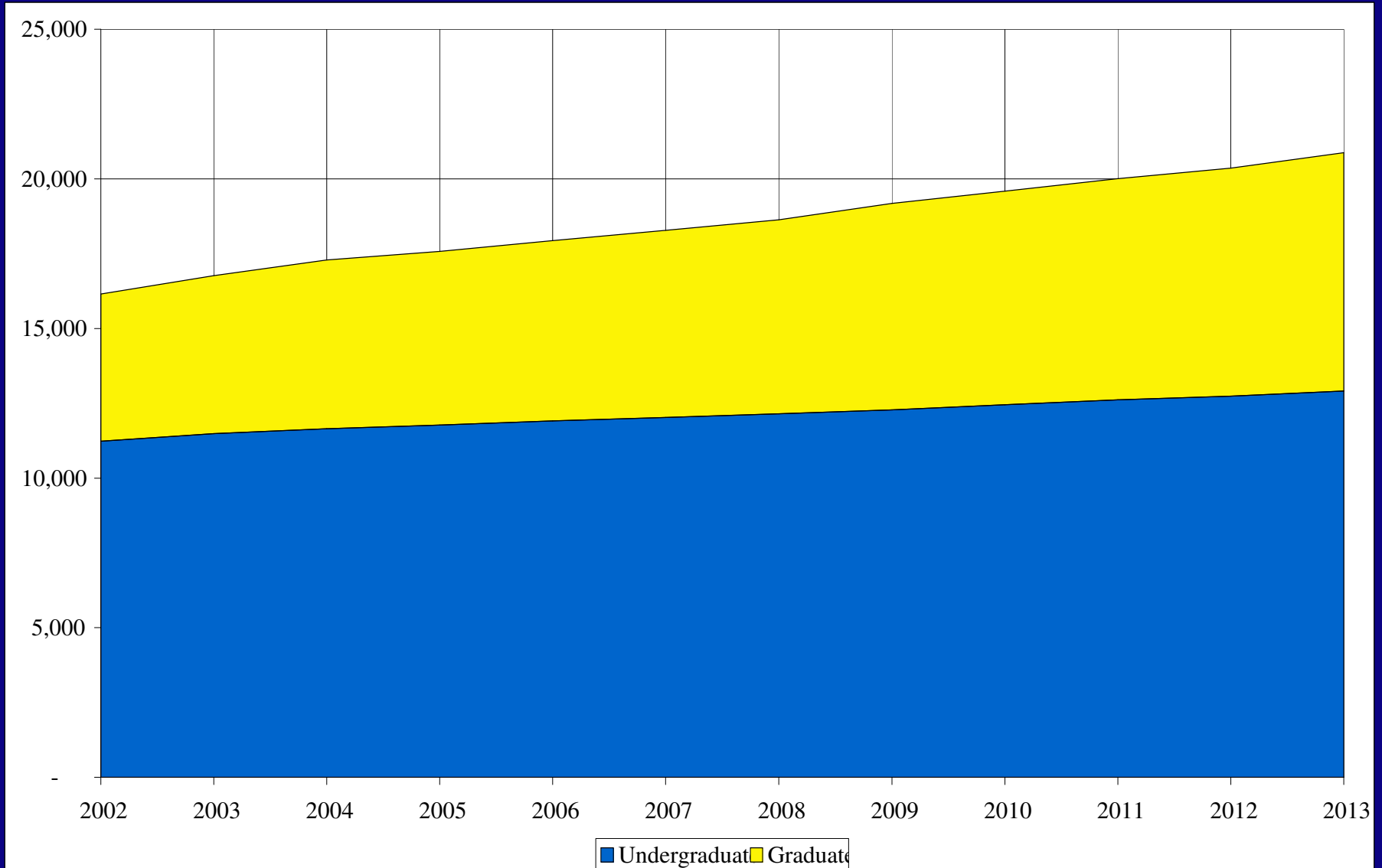
Quality of Education: A critical issue

- Student/faculty ratio goal: 16/1 (now 21/1)
- Would require 550 new faculty by 2013
- Space requirements:
 - Classrooms
 - Research labs
 - Offices for faculty and attendant grad students
 - Support services



Projected enrollment

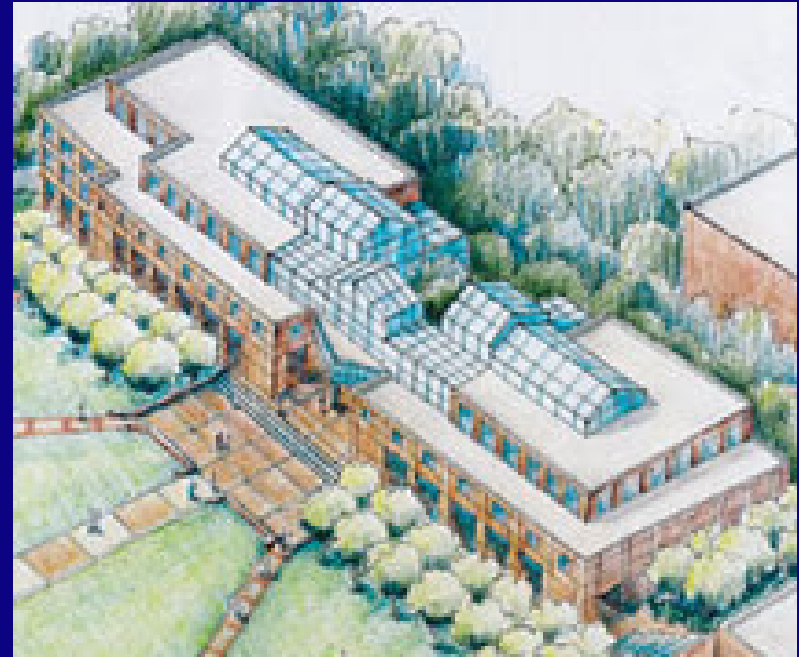
(2002-2013)



Next generation GT facilities



Advanced Clean Room
Building

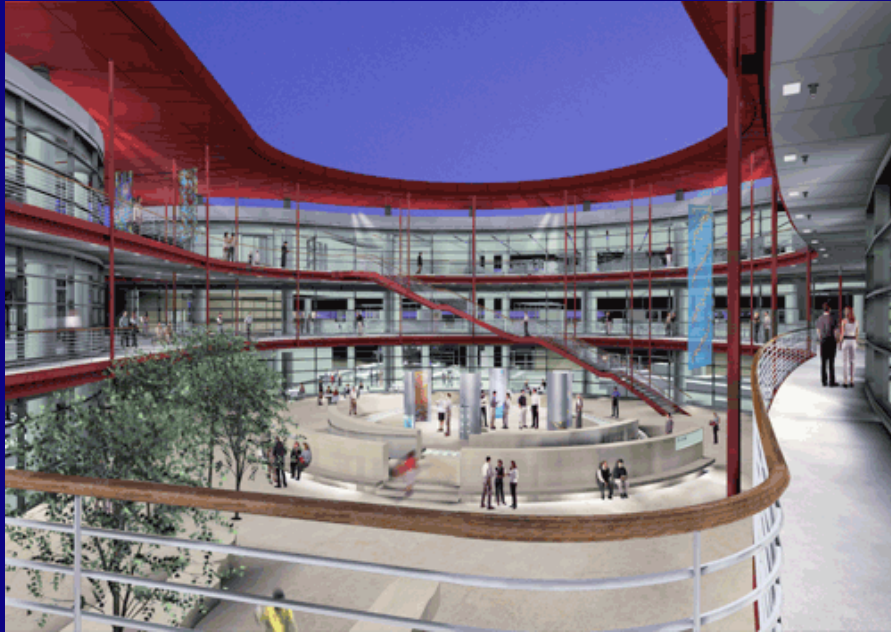


Undergraduate
Learning Center



Molecular Science
and Technology

Facilities:
The best keep
improving...

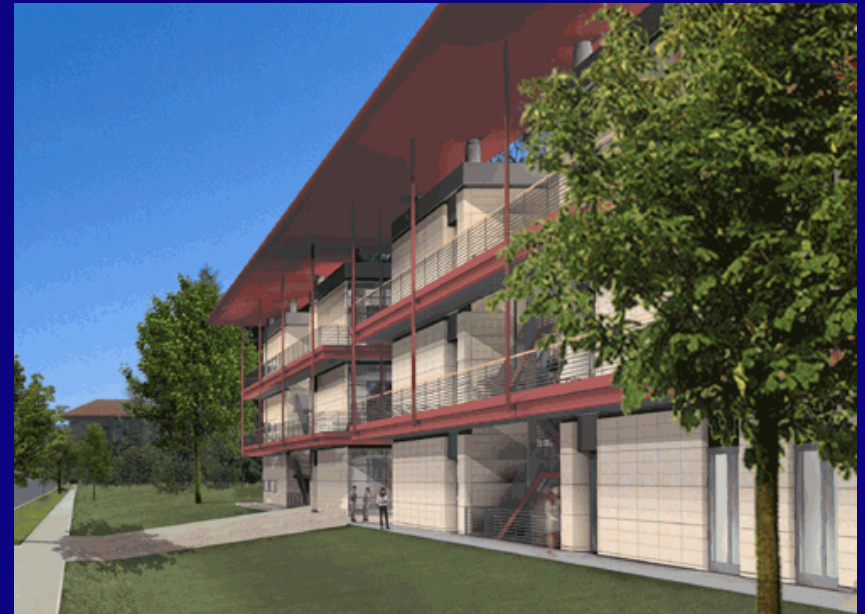


The Clark Center will house research for biocomputation, biophysics, biodesign, chemical biology, genomics/proteomics and regenerative medicine. It will also house the newly evolving Department of Bioengineering, a large cafe, an auditorium, and several seminar rooms.

Stanford University

Clark Center for Biomedical Engineering and Sciences

- \$150 million
- 182,500 GSF





Massachusetts Institute of Technology

The Stata Center for Computer, Information, and Intelligence Sciences

The Ray and Maria Stata Center will include the William H. Gates Building housing the Laboratory for Computer Science; the Alexander Dreyfoos Building housing the Artificial Intelligence Laboratory, the Laboratory for Information Decision Systems, and the Department of Linguistics and Philosophy; a below grade service facility; and 2 levels of below grade parking.

- \$212.5 million
- 713,000 GSF



University of Michigan - Ann Arbor



Biomedical Science Research Building

- \$220 million
- 472,000 GSF

Cardiovascular Center

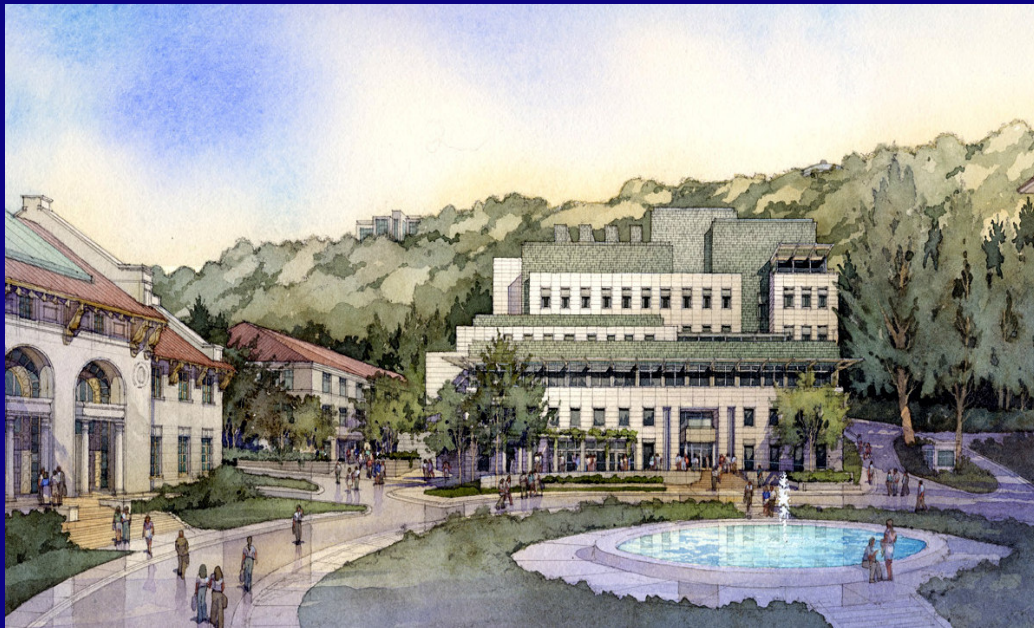
- \$199 million
- 350,000 GSF



University of California-Berkeley

Stanley Biosciences and Bioengineering Facility

- \$162.3 million
- 285,000 GSF



The Stanley facility will be dedicated to structural biology, bioengineering, chemical biology, computational biology,

magnetic imaging, tissue engineering, and other disciplines. The facility is partially funded by the state through the California Institutes for Science and Innovation program (Cal-ISI).

Yale University

Environmental Sciences Facility

- 98,000 GSF
- First of \$500 million, five-building project



The Environmental Sciences Facility is adjacent to the Peabody Museum of Natural History and supports its work. The \$500 million investment in science and technology facilities also includes new buildings for the Department of Chemistry; the Department of Molecular, Cellular and Developmental Biology; the Faculty of Engineering; and a second environmental facility for the School of Forestry and Environmental Studies.

Basic Questions: How do we...

- Recruit our share of the best and brightest students?
- Generate funds for 550 new faculty?
- Continue to build and renovate facilities to keep pace with the competition?
- Maintain programs of distinction while lifting others to prominence?
- Manage/plan for the size of the student body?

Guiding principles

- Stay focused on our mission and strategic vision.
- Continue to make strategic investments that leverage strengths.
- Anticipate/influence trends at the national/international level and be prepared to adapt.
- Build our case for sustained state investment.
- Leverage private and industry support.
- Create funds for strategic investments.
- Develop alternative revenue sources.

Guiding principles, cont.

- Assess and understand where the competition is going.
- Optimize effective use of collaborations.
- Emphasize continuous improvement in all areas of the institution.
- Continue to focus on people.